

Title (en)

Three-speed dual-winding direct current permanent magnet motor method and apparatus

Title (de)

Verfahren und Vorrichtung für einen Gleichstrom-Dauermagnetmotor mit drei Drehzahlen und zwei Wicklungen

Title (fr)

Méthode et appareil pour moteur à courant continu et à aimants permanents à trois vitesses et deux enroulements

Publication

**EP 0843406 A3 19980722 (EN)**

Application

**EP 97117745 A 19971014**

Priority

US 74864496 A 19961113

Abstract (en)

[origin: EP0843406A2] A direct current motor having a primary armature winding, a secondary armature winding and a switching circuit adapted to selectively energize the primary winding and the secondary winding to achieve three-speed motor operation is disclosed. The system is adapted to achieve a high speed of the motor by energizing only the primary winding, a medium speed of the motor by energizing only the secondary winding, and a low speed of the motor by energizing both the primary winding and the secondary winding. The system also includes a voltage source providing a direct current level voltage with respect to an electric ground and a switching circuit adapted to operate the motor. The switching circuit is coupled to the voltage supply for energizing the primary winding only to achieve a high speed, energizing only the secondary winding to achieve a medium speed, and energizing both the primary winding and the secondary winding in series with each other to achieve a low speed. A method of operating the motor is also disclosed. <IMAGE>

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IPC 8 full level

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CPC (source: EP US)

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Citation (search report)

- [X] FR 2531286 A3 19840203 - INDESIT [IT]
- [A] DE 3812190 C1 19890831
- [A] US 4041360 A 19770809 - MORRIS GEORGE E
- [A] PATENT ABSTRACTS OF JAPAN vol. 012, no. 232 (E - 628) 30 June 1988 (1988-06-30)
- [A] PATENT ABSTRACTS OF JAPAN vol. 010, no. 104 (E - 397) 19 April 1986 (1986-04-19)

Cited by

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